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RESIN SEALED TYPE SEMICONDUCTOR DEVICE WITH HEAT SINK

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Abstract:

PURPOSE: To extend the life of titled device by a method wherein a semiconductor loading part is formed thicker than average thickness of lead frame to improve the radiating capacity while reducing especially transient heat resistance and restraining temperature rise in case of switching operations.

CONSTITUTION: A semiconductor loading part 4 to be a bed 31 of lead frame is formed thicker than average thickness of lead frames 3. Then a semiconductor element pellet 5 is mounted on the semiconductor loading part 4 through the intermediary of a bonding member 6 such as solder etc. and then an electrode on the pellet 5 is connected to an inner lead of lead frame 3 by a metallic fine wire 7. Later a heat sink 2 is placed below a cavity of a transfer mold metal die and then the lead frame 3 is placed to be resin-formed. Finally the space between the semiconductor loading part 4 and the heat sink 2 is filled with thermoconductive epoxy sealing resin 1.

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